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(54) BLUE-COLOR LUMINOUS FLUOROPHOR

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a fluorophor of high luminous efficiency affording blue-color luminescence with favorable chromaticity.

SOLUTION: This blue-color luminous fluorophor consists of a borate containing 3 elements: Y, Al and Ce with the ion concentration ratio Ce^{3+}/Ce^{4+} of 0.3 or greater. In this fluorophor, a phosphate may be partly substituted for part of the borate, Eu for Ce, or another rare earth metal for Y. This fluorophor is high in luminous efficiency compared to conventional YBO₃:Ce fluorophors, and its chromaticity as blue color is suitable for color display.

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